

## Tryin' for Triangles

### **Materials Needed:**

- Student Groups of 3 or 4
- Drinking Straws Cut into 1 in., 2 in. 3 in., 4 in., 5 in., and 6 in. lengths. (3 of each length per group)
- Three dice per group
- One recording sheet per student (on the back here)

### **Rules for Play:**

- Each student takes turns rolling the three dice.
- The three numbers that you roll indicate the three lengths of straws you must use.
- Try to arrange the three straws into a triangle that you must use for that turn, if possible.
- If a triangle is formed, then you receive a point, which is recorded in the appropriate column. All students must record all scores for their group.
- The three numbers rolled should also be recorded in the appropriate "Yes" or " No" column indicating whether or not those three lengths formed a triangle. Every student in the group records every outcome.
- At the end of 10 rounds, the student with the highest point total is the winner.

### **Reviewing the game.** (TO BE DONE FOR HOMEWORK!!!)

- 1) Can you determine whether or not you will be able to build a triangle based on the numbers rolled without actually building it?
  
- 2) Classify the triangles in your "Yes" columns. How many are equilateral? How many are isosceles? How many are scalene? Are there patterns in these groups of triangles?
  
- 3) Can you fill in some of the missing triangles that were not "rolled" during the game?
  
- 4) What are some conclusions we can draw?

## Players

Round					
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
Total Score					

[illegible]